

CLASS SPECIFICATION
County of Fairfax, Virginia

CLASS CODE: 6408

TITLE: WELDER II

GRADE: S-18

DEFINITION:

Under supervision, performs a wide variety of welds, utilizing simple and precise welding techniques to repair a variety of equipment, mechanical components, piping systems, pressure vessels or structures; and performs related work as required.

ILLUSTRATIVE DUTIES:

Welds and brazes metal to repair broken or cracked objects or to fabricate new parts and equipment;
Uses acetylene, Shielded Metal Arc Welding (SMAW), Gas Metal Arc Welding (GMAW) and Gas Tungsten Arc Welding (GTAW) processes;
Works with steel, aluminum, brass and cast iron and may perform soldering;
Performs lay-outs and sketches required in the execution of projects;
Measures, cuts metal stock to size, cleans, assembles or positions work pieces;
Sets up and adjusts welding equipment, and performs bead welding, tack welding, brazing, flame cutting, heat treating, plasma cutting, chipping or grinding off excess weld slag or spatter;
Reviews and interprets blue prints in order to fabricate materials for required specifications;
Welds pipe and pressure vessels such as boilers, headers, and hot water storage tanks;
Drives a vehicle to and from work locations and keeps vehicle supplied with tools and materials;
Performs preventative maintenance and emergency repair on equipment and operator maintenance on vehicle;
Maintain stock inventory of welding supplies and materials;
Maintains records and processes reports of work accomplished and materials used;
Prevents and mitigates any environmental impact associated with mechanical/welding activities, accidents or emergency situations;
Exercises safety in dealing with hazardous welding by-products and participates in safety training;
May supervise and instruct trades helpers and/or apprentice welders.

REQUIRED KNOWLEDGE, SKILLS AND ABILITIES:

Considerable knowledge of the equipment, materials, methods, practices, and tools used in the welding trade;
General knowledge of standard operating procedures, training manuals and safety requirements;
Knowledge of mechanics and hydraulics;
Knowledge of occupational hazards, applicable safety practices and emergency response procedures;
Knowledge of chemicals and their associated hazards, personal protective equipment required, safety precautions and emergency treatment;
Working knowledge of local, state and national codes;
Ability to use precision measurement tools, hand and power tools, equipment, and materials pertinent to the trade;

Ability to fully plan and perform work of the trade;
Ability to follow written and oral instructions, diagrams, blueprints and manufacturers' and repair manuals;
Ability to estimate time and material needs, determine when repair is not economically practical, And to perform routine clerical tasks and arithmetical computations;
Ability to maintain good interpersonal relationships.

EMPLOYMENT STANDARDS:

Any combination of education, experience, and training equivalent to: completion of the tenth grade; AND two years experience in the welding trade.

CERTIFICATES AND LICENSES REQUIRED:

Possession of a valid Motor Vehicle Driver's License; OR contingent upon area of assignment, some positions in this class may require a Commercial Driver's License. May be required to provide copies of driving record periodically for verification of driving status. Depending upon area of assignments, American Society of Mechanical Engineers certification to weld pipe and pressure vessels.

REGRADED:	March 6, 2009
REFORMATTED/REVISED:	December 3, 2007
REVISED:	May 21, 1992
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